

Notice of Allowability

Application No.

10/787,157

Applicant(s)

KIM, JI-SANG

Examiner

Art Unit

Olumide T. Ajibade-Akonai

2617

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/27/2007.
2. ☒ The allowed claim(s) is/are 2-5 and 16-23.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
- ☒ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

Allowable Subject Matter

1. Claims 2-5, and 16-23 allowed.

The following is an examiner's statement of reasons for allowance:

2. Regarding **claims 2 and 16**, Chang 20030109243 discloses: a mobile device having an overcurrent cutoff function and at least one function module, the mobile device comprising: a main power supply which supplies power to the mobile device; a power detection unit which detects whether power from the main power supply to the mobile device is cut off, and generates a power cutoff signal when the power is cut off; a backup power supply unit which supplies a backup power to the mobile device when the power from the main power supply to the mobile device is cut off; and a control unit comprises application programs and an operating system, and runs the application programs or controls the at least one function module, and which communicates data lines and control signal lines with the at least one function module, and then generates a backup power supply enable signal to enable the backup power supply unit to supply power. Saito 4,761,824 teaches converts potential levels of the data lines and control signal lines connected with the at least one function module to a predetermined potential level in response to the power cutoff signal. The instant invention discloses wherein the control unit further comprises: a flash ROM which stores the application programs to drive the at least one function module; a microprocessor driven by the application programs, and which communicates data with the function module and applies an output power of the backup power supply unit to the mobile device in

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response to the power cutoff signal; and a level conversion unit which converts the potential levels of the data lines and control signal lines to the predetermined potential level in response to the power cutoff signal. The above novel features are neither taught, suggested nor made obvious by Chang, Saito, or any other prior art of record. Claims 3,4, and 17-23 are allowable based on their being dependent on claims 2 and 16.

Regarding **claim 5**, Chang 20030109243 discloses: a mobile device having an overcurrent cutoff function and at least one function module, the mobile device comprising: a main power supply which supplies power to the mobile device; a power detection unit which detects whether power from the main power supply to the mobile device is cut off, and generates a power cutoff signal when the power is cut off; a backup power supply unit which supplies a backup power to the mobile device when the power from the main power supply to the mobile device is cut off; and a control unit comprises application programs and an operating system, and runs the application programs or controls the at least one function module, and which-communicates data lines and control signal lines with the at least one function module, and then generates a backup power supply enable signal to enable the backup power supply unit to supply power. Saito 4,761,824 teaches converts potential levels of the data lines and control signal lines connected with the at least one function module to a predetermined potential level in response to the power cutoff signal. The instant invention discloses wherein the power detection unit comprises: a slide switch having first, second, and third terminals, wherein the second and third terminals are connected in common;

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a first resistor connected between the first terminal and the main power supply; and
a second resistor connected between the third terminal and the ground, wherein a node
is connected to the third terminal forming an output terminal for outputting the power
cutoff signal. The above novel features are neither taught, suggested nor made obvious
by Chang, Saito, or any other prior art of record.

Any comments considered necessary by applicant must be submitted no later
than the payment of the issue fee and, to avoid processing delays, should preferably
accompany the issue fee. Such submissions should be clearly labeled "Comments on
Statement of Reasons for Allowance."

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to
applicant's disclosure.

Banh et al 6,526,294 discloses automatic control circuit for enabling and
disabling the supply voltage in a short range wireless device.

Jung 5,239,695 discloses radio frequency power control circuit of mobile
radiotelephone.

Barkat et al 5,862,493 discloses external power source to main battery power
sources switch.

Lin 7,136,682 discloses a portable electronic system equipped with a spare
battery device.


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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Olumide T. Ajibade-Akonai whose telephone number is 571-272-6496. The examiner can normally be reached on M-F, 8.30p-5p.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rafael Perez-Gutierrez can be reached on 571-272-7915. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Rafael Perez-Gutierrez
Supervisory Patent Examiner
Technology Center 2600
Art Unit 2617
9/29/07